

# Purchase Order Receipt Listing

Friday, July 15, 2016 3:53:59 PM

Page 1 of 1

All amounts are calculated in domestic currency.

All Vendors PO ID PO32894 All Receipt Dates All Line Item Types  
All Item ID/GL/WDs All Rec. Employees All Currencies  
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
<b>Vendor ID/Vendor Name</b> VU-TWM001 TW Metals											
PO32894	1		M304TR0.750W.049 f		7/11/2016	7/15/2016	60.0000		0.0000	0	\$0.00
USD	No		304 RD Tube .750 x .049W		60.0000	PLOU01			0.0000	0	
			m135242								
	2		M6061T6T0.500W.05 f		7/11/2016	7/15/2016	84.0000		0.0000	0	\$0.00
	No		6061-T6 RD Tube .500 x.058W		80.0000	PLOU01			0.0000	0	
			m135242								
	3		M6061T6T0.625W.12 f		7/11/2016	7/15/2016	24.0000		0.0000	0	\$0.00
	No		6061-T6 RD Tube 0.625 X.125W		24.0000	PLOU01			0.0000	0	
			m135242								
	4		M4130NT0.750W.08 f		7/11/2016	7/15/2016	19.5830		0.0000	0	\$0.00
	No		4130 RD Tube .750 x.083W		24.0000	PLOU01			0.0000	0	
			m135242								
	5		71401-45		7/11/2016	7/15/2016	1.0000		0.0000	0	\$0.00
	No		procurement quality clauses		1.0000	PLOU01			0.0000	0	
			m135242								

Total Received Quantity: 188.5830  
Total Qty to Inspect (PO U/M): 0.0000  
Total Reject Quantity: 0.0000  
Total Receipt Value: \$0.00  
Total Balance Due Quantity: 0.0000



ORDER NO.: 60608367 FROM: CRAN PAGE 1

PACKING SLIP

SHIP TO: 47.075 REQ. DATE: 07/08/16 CONFIRMED

DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKSBURY ON  
ONTARIO CANADA  
CN K6A 1K7

SHIP BY: 07/05/16  
COMMON CARRIER  
PREPAID

RELEASE NO.:  
FREIGHT:  
RECEIVING PHONE:

WIDTH  
LENGTH  
20' CL

SHIPPED QTY  
60.000 FT

WT  
22.003

PCS  
3

SALESPERSON: DONNA SMALLEY  
NET 30 DAYS  
SHIPPING POINT  
F.O.B.:  
CUST ORD NO.: PO32894

CANADA  
HAWKSBURY ON  
1270 ABERDEEN ST  
DART AEROSPACE LTD

CUST NUMBER: 1203820 NET WGT:



LINE ITEM DESCRIPTION  
0001 36860 SMLS CD 304/L A269 3/4 OD X .049 WA  
INVOICE QTY  
60.000 FT

SHIPPED QTY  
60.000 FT

WT  
22.003

PCS  
3

\*\* 1 TEST REPORTS REQUIRED \*\*  
ECCN: 2B99.9 HT: YX1503612  
PO: 49330967 HT: YX1503612  
MLT: CHINA  
Export License: NLR  
PC: 3

INVOICE QTY  
84.000 FT

SHIPPED QTY  
84.000 FT

WT  
7.953

PCS  
7

0002 42276 D6061-T6 1/2 OD X .058 WA  
INVOICE QTY  
80.000 FT

SHIPPED QTY  
84.000 FT

WT  
7.953

PCS  
7

\*\* 1 TEST REPORTS REQUIRED \*\*  
ECCN: FAR99  
PO: 49338163 HT: 84800931  
MLT: UNITED STATES  
Export License: NLR  
PC: 7

INVOICE QTY  
24.000 FT

SHIPPED QTY  
24.000 FT

WT  
5.541

PCS  
2

0003 42588 D6061-T6 5/8 OD X .125 WA  
INVOICE QTY  
24.000 FT

SHIPPED QTY  
24.000 FT

WT  
5.541

PCS  
2

\*\* 1 TEST REPORTS REQUIRED \*\*  
ECCN: FAR99  
PO: 49330211 HT: F001858850001  
MLT: UNITED STATES  
Export License: NLR  
PC: 2

INVOICE QTY  
24.000 FT

SHIPPED QTY  
24.000 FT

WT  
5.541

PCS  
2

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE  
OF THESE PRODUCTS ARE SET FORTH ON THE  
REVERSE SIDE FOR YOUR CAREFUL REVIEW.

8016-715



ORDER NO.: 60608367 FROM: CRAN PAGE 2

PACKING SLIP

CUST NUMBER: 1203820 NET WGT: 47.075 REQ. DATE: 07/08/16 CONFIRMED

SOLD TO: DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY ON  
CANADA  
SHIP TO: DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY ON  
ONTARIO CANADA  
SHIP BY: 07/05/16  
COMMON CARRIER  
PREPAID

SALESPERSON: DONNA SMALLEY  
NET 30 DAYS  
F.O.B.: SHIPPING POINT  
CUST ORD NO.: PO32894  
RELEASE NO.:  
FREIGHT:  
RECEIVING PHONE:

LINE ITEM DESCRIPTION  
0004 33096 SMLS CD 4130 6736 3/4 OD X .083 WA  
LENGTH 17/24 FT  
CLIN# ORD QTY INVOICE QTY SHIPPED QTY WT  
24.000 FT 19.583 FT 19.583 FT 11.578  
PC 1

\*\* 1 TEST REPORTS REQUIRED \*\*  
\*\* 1 CERTS REQUIRED \*\*

ECN: 9A991.d Export License: NLR  
PO: 4931635 HT: 587359 PC: 1  
MLT: GERMANY MFG: GERMANY  
SLB/CL: 1600427  
CUSTOMER QTY: 19.583 UOM FT  
Expiration Date: 0/00/00

BROKERS KUEHNE AND NAGEL LTD

AREA TYPE OF PKG PKGS GRS WEIGHT WIDTH LENGTH HGHT  
B CARTON 1.000 57.000 20.5000  
B CARTON 1.000 57.000 12.5000  
PACK INFO

BY: ED RT 000- UNLOAD TYPE: NONE SPECIFIED

DATE SHIPPED

DATE FILLED

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE  
OF THESE PRODUCTS ARE SET FORTH ON THE  
REVERSE SIDE FOR YOUR CAREFUL REVIEW.

501675

PuFA™

Producer of Premium Stainless Steel Seamless Tubes

# MILL TEST REPORT

Purchaser: TW METALS-Cranbury		Certificate No.: 15-8-138		Date of Issue: 2015.8.31	
Contract No.: TWM P.O.No. M49330967		Specifications: ASTM A213-14/ASME SA213-13/ASTM A269-14 EAW			
Process: Cold Drawn					
Steel Grade	Heat Number	Lot	Dimensions	Quantity	
				Pieces	Feet
TP304/TP304L	YX1503-612	7-78	3/4" x 0.049" x 20'	350	7,000

Chemical Composition by Weight (%)									
Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-12.00	-	-
Ladle Analysis	0.012	0.63	0.033	0.002	0.33	18.20	8.05	-	-
Product Analysis	0.024	0.65	0.033	0.003	0.37	18.18	8.37	-	-

Mechanical Properties										
Test Item	Elongation (% in 2")		Tensile Strength (PSI)		Yield Strength (PSI)		Rp / 0.2%			
	Requirements	≥35	≥75,000	Rm						
Test Results	63/64		93,000/94,000		36,000/37,000		≥30,000			
Test Item	Reduction of Area Z (%)		Hardness		Cold Bend		Flaring		P.M.I. Test	
	Requirements	-	HRB≤80	-	22%	e=0.09	-	-		
Test Results			76/78				Passed			OK
Test Item	Eddy Current Test		Air Underwater Pressure Test		Ultrasonic Test		Intergranular Corrosion Test			Macroscopic Inspection
	Requirements	-	-	-	-	Passed	Passed	-		
Test Results									OK	
Test Item	ASTM E 426						ASTM A262 E		Appearance	
	Requirements	Passed					OK			
Test Results							OK			OK

ISO 9001:2008 Certified by Intertek 110703068 PED Certified by SZUTEST 2195-PED-1221604

## Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

By:



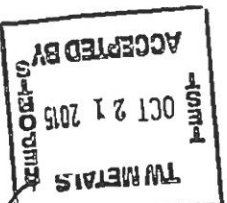
James Shi / Manager

We hereby certify that this report is true and correct.

Quality Control Department

## Shanghai PuFa Stainless Steel Pipe Factory

No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China







# **CERTIFIED TEST REPORT**

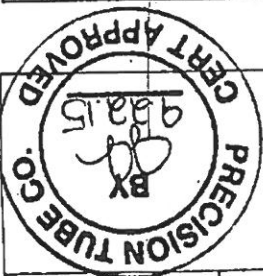
<http://Online.KaiserAluminum.com>

*Best in Class*

**KAISER ALUMINUM**  
FABRICATED PRODUCTS

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
2425 STEVENS DRIVE  
RICHLAND, WA 99352

CUSTOMER PO NUMBER: PT54356		CUSTOMER PART NUMBER: SPIRIT-371850		PRODUCT DESCRIPTION: 5.400 LB/PC .500 LB/-0 LB 1.312 OD X .085 WALL ESRT	
KAISER ORDER NUMBER: 319276	LINE ITEM: 001	SHIP DATE: 09/18/2015	KAISER LOT NUMBER: 50751-305	ALLOY: 6061	TEMPER: O
WEIGHT SHIPPED: 15557.000 LB	QUANTITY: 2834.000 PCS	BL NUMBER: 004845	DIA/DIA/FTH/KNS:	WIDTH:	LENGTH: 13.984 FT
SHIP TO: PRECISION TUBE CO 287 WISSAHICKON AVENUE N. WALES, PA 19454 USA					
MUELLER INDUSTRIES, INC PRECISION TUBE 8285 TOURNAMENT DRIVE STE. 150 MEMPHIS, TN 38125 USA					



## **Actual Physical Properties**

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	Elong In 2	HARDNESS	CONDUCT	BEND
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50751-305	0001	0001	18.4	7.2	27.1	N/A	N/A	N/A
50751-305	0001	0002	17.2	5.6	26.3	N/A	N/A	N/A
50751-305	0001	0003	17.7	6.0	27.5	N/A	N/A	N/A
50751-305	0001	0004	18.3	6.2	26.8	N/A	N/A	N/A
50751-305	0001	0005	18.6	6.4	26.6	N/A	N/A	N/A
50751-305	0001	0006	19.0	6.5	26.7	N/A	N/A	N/A
50751-305	0001	0007	18.0	6.8	27.5	N/A	N/A	N/A
50751-305	0001	0008	18.5	6.5	28.4	N/A	N/A	N/A
50751-305	0001	0009	18.4	6.1	27.2	N/A	N/A	N/A
50751-305	0001	0010	18.6	6.6	27.8	N/A	N/A	N/A
50751-305	0001	0011	18.4	6.7	25.9	N/A	N/A	N/A
50751-305	0001	0012	18.8	4.5	27.5	N/A	N/A	N/A
50751-305	0001	0014	16.9	5.0	28.0	N/A	N/A	N/A
50751-305	0001	0015	19.1	6.7	27.5	N/A	N/A	N/A
50751-305	0001	0016	18.1	7.2	27.2	N/A	N/A	N/A
50751-305	0001	0013	17.8	5.8	26.5	N/A	N/A	N/A

## **Chemical Composition (wt%), Aluminum Remainder**

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	EA	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	1.5
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0
F75051	.61	.30	.23	.06	.95	.10	.04	.03	.00	.00	.00	.01	.02
F75052	.59	.28	.20	.05	.99	.08	.03	.02	.00	.00	.00	.01	.02
F82108	.60	.34	.24	.05	.97	.08	.06	.03	.00	.00	.00	.01	.02
F75054	.60	.30	.19	.06	.94	.08	.04	.03	.00	.00	.00	.01	.02
F75056	.58	.32	.21	.05	.96	.09	.04	.03	.00	.00	.00	.01	.02

## **Applicable Requirements:**



**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

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KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
2425 STEVENS DRIVE  
RICHLAND, WA 99352

ASTM-B241-12 NON-STENCILLED ASTM-B221-13 ASTM-B345-11 AMS-QQ-A-200/8 97(R07) TYPE I  
UNS#A96061 Also conforms to EN 10204 3.1

**Miscellaneous Notes**

MANUFACTURED IN USA MELTED IN USA  
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY  
OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

**CERTIFICATION**

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been  
inspected and tested and found in conformance with applicable specifications forming a part of the  
description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on  
Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

JOSEPH AMES, QUALITY MANAGER

*[Signature]*

THW METALS  
OCT 30 15  
ACCEPTED BY  
*[Signature]*

# KAISER ALUMINUM FABRICATED PRODUCTS

*Best in Class*

CERTIFIED TEST REPORT  
<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
 FABRICATED PRODUCTS, LLC  
 6573 W. WILLIS ROAD  
 CHANDLER, AZ 85226

CUSTOMER PO NUMBER: M49330211-1		CUSTOMER PART NUMBER: 42588		PRODUCT DESCRIPTION: Seamless Tube/Pipe	
KAISER ORDER NUMBER: LINE ITEM: 001	SHIP DATE: 04/13/2015	KAISER LOT NUMBER: F00185885	ALLOY: 6061	TEMPER: T6	
218040	QUANTITY: 132,000 PCS	B/L NUMBER: 218440	DIA/M/DAF/TH/KNS:	WIDTH:	LENGTH: 12,000 FT
366,000 LB	WEIGHT SHIPPED:				
SHIP TO:					
TW METALS INC 27 ENGLEHARD DRIVE EXIT 8A OFF NJ TPK MONROE TWP, NJ 08831 USA					
SOLD TO:					
TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA					

## Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND
F00185885	0001	1	45.9	44.0	16.0	N/A	N/A	N/A
				DAS 14	9-89			
					16/07/20			

## Chemical Composition (wt%), Aluminum Remainder

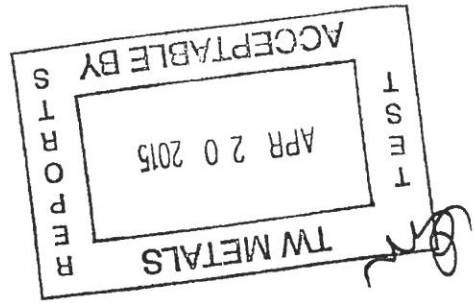
LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D39623	.57	.26	.22	.04	1.01	.06	.01	.02	.00	.00	.00	.01	.02

## Applicable Requirements:

Description: OD: 0.6250", Wall: 0.1250", Round @  
 AMS-4082P AMS-WW-T-700/6B ASTM B210-12 WM-T-700/6F  
 WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS-4082P, WAS NOT OILED.  
 This Product Complies to FAR BAA, DfARS BAA, FAR TAA  
 COMPLIES TO DIN EN 10204 JAN 2005  
 No Weld Repair. Mercury Free.

## Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA  
 MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DfARS BAA  
 (DfARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5  
 TRADE AGREEMENTS).





**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
6573 W. WILLIS ROAD  
CHANDLER, AZ 85226

*Best in Class*

**CERTIFIED TEST REPORT**  
<http://Online.KaiserAluminum.com>

**CERTIFICATION**  
Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Linda Adkins, Quality Manager  
*Linda Adkins*

Benteler Steel/Tube GmbH  
Postfach 13 40  
33043 Paderborn  
Deutschland  
Tel.: +49.5254.81-0 Fax: +49.5254.13666

**BENTELER**  
Steel/Tube

**ABNAHMEPRÜFZEUGNIS EN 10204-3.1**  
INSPECTION CERTIFICATE EN 10204-3.1  
CERTIFICAT DE RECEPTION EN 10204-3.1  
EN 10204:2005-01

Benteler Steel/Tube GmbH - Postfach 1340 - 33043 Paderborn - Deutschland

TW Metals  
The Aboretum, Suite 204  
760 Constitution Drive  
EXTON PA 19341  
USA

Dokument-Nr.: 41-832030/002/P  
Document No.:  
No. du document:

Kunden-Bestell-Nr.: 46002429 TW M49316335

Purchase Order No.:  
No. de commande du client:

1600427

Benteler Auftrags-Nr.:  
Benteler Order No.:

No. de commande Benteler:

4188698

Versandanzeigen-Nr.:  
Dispatch Note No.:

No. d'avis d'expédition:

Produkt: NAHTLOSE STAHLROHRE  
Product: SEAMLESS STEEL TUBES

AMS-T-6736B Type 1, ASTM-A 519-2006, MIL-T-6736B Type 1

Lieferbedingungen:

Terms of delivery:

Conditions de livraison:

AMS 2253E-83, Aircraft Type, Seamless, Cold Finished

Maße - Toleranzen:

Dimensions-tolérances:

Stahlsorte:

GRADE 4130, AMS 6360M and AMS 6371K

Nuance d'acier:

DAS  
14  
9-89

Lieferzustand:

N

Delivery condition:

État de livraison:

Produktkennzeichnung:

FSD: BENTELER AMS-T-6736 B 1-MIL-T-6736 B 1-4130 N HEAT-NO. CD AQ S DIMENSIONS WA  
GERMANY

Marquage du produit:

AEZ = Markierungsbeschriftung, Etching ink marking, Gravure à l'encre - FK = Farbstrahlentemp, Colour jet printer, Impression à jet d'encre de couleur - LK = Laserkennzeichnung, Laser marking, Marquage laser - PKE = Etikettenkennzeichnung, Tag marking, marquage sur étiquette - PS = Prägestempel, die stamp, marquage par poinçonnage - TS = Trennstrahlkennzeichnung, Ink jet spray marking, Impression à jet d'encre

Blatt: 1 / 4  
Page:

Prüf-Nr.:  
Inspection No.:  
No. du certificat:

Hersteller: Warmrohrwerk/Zieherlei

Manufacturer: IDIN EN ISO 9001, ISO/TS-18949 CERTIFIED BY TÜV NORD CERTI  
Productur: (PED 97/23/EC CERTIFIED BY TÜV NORD SYSTEMS)

Herstellerzeichen:  
Manufacturer's brand:

Marque du producteur:

Stempel des Abnahmebeauftragten: WA

Poinçon du contrôleur:

Stahlschmelzungsverfahren: ELEKTROSTAHL  
Steelmaking process: ELECTRIC FURNACE

Procédé d'élaboration de l'acier: FOUR ELECTRIQUE

TW METALS	
T	R
E	P
S	O
OCT 09 2014	
ACCEPTED BY	

Benteler Steel/Tube GmbH  
Postfach 13 40  
33043 Paderborn  
Deutschland  
Tel.: +49.5254.81-0 Fax: +49.5254.13666

**BENTELER**  
Steel/Tube

**ABNAHMEPRÜFZEUGNIS EN 10204-3.1**  
INSPECTION CERTIFICATE EN 10204-3.1  
CERTIFICAT DE RECEPTION EN 10204-3.1

Dokument-Nr.: 41-832030/002/P  
Document No.:  
No. du document:

Prüf-Nr.:  
Inspection No.:  
No. du certificat:

Blatt: 2 / 4  
Page:  
Page:

Pos. Stück	Maße	Länge	Gewicht	Schmelzen-Nr.	Prüfdruck	Rohr-Nr.-Gruppe	Vierfachlängen
Item Number	Dimensions	Length	Weight	Heat No.	Test pressure	Tube number group	Multiple lengths
Poste Nombre	Dimensions	Longueur	Poids	No. de coulée	Pression d'épreuve	Série de no. des tubes	Longueurs multiples
0016 221	0.750" O.D. * 0.083" WT 17 FT - 24 FT	feet	lbs				
		4335,89	2531	587359			

Schmelzenanalyse [%] / Heat analysis [%] / Analyse sur coulée [%]

Pos. Schmelzen-Nr.	C	SI	MN	P	S	CR	MO	NI	CU
Item Heat No.									
Poste No. de coulée									
0016 587359	0,320	0,260	0,56	0,006	0,001	0,88	0,17	0,13	0,13

Produktanalyse [%] / Product analysis [%] / Analyse sur produit [%]

Pos. Schmelzen-Nr.	C	SI	MN	P	S	CR	MO	NI	CU
Item Heat No.									
Poste No. de coulée									
0016 587359	0,310	0,280	0,56	0,006	0,001	0,87	0,16	0,12	0,12

Prüfergebnisse / Test results / Résultats des essais

Die Rohre wurden zerstörungsfrei geprüft:

ET-test: acc. to ASTM-A 450; ET - Test method: acc. to ASTM-E 309; for imperfections;

PASSED

The tubes are non destructive tested:

ET-test: ET with rotating pancake coils; according to EN 10246-3; imperfections;

PASSED

Les tubes ont passé un essai non destructif:

Notch depth: 0,30 mm; notch width < = notch depth; notch length min. 2 x transducer width (max. 50 mm)

Augensichtkontrolle:

PASSED

Materialverwechslungsprüfung:

PASSED

Maßkontrolle:

PASSED

Visual inspection:

Material conformity test:

Dimensions examination:

Examen visuel:

Vérification de la nuance:

Vérification des dimensions:

Ergebnisse der mechanischen Prüfung / Results of mechanical testing / Résultats des essais mécaniques

Die Probenahme erfolgte an Vielfachlängen.

The sampling was carried out on multiple lengths.

L'échantillonnage était réalisé aux longueurs multiples.

TW METALS  
OCT 09 2014  
ACCEPTED BY S

Benteler Steel/Tube GmbH  
Postfach 13 40  
33043 Paderborn  
Deutschland  
Tel.: +49.5254.81-0 Fax: +49.5254.13666

**BENTELER**  
Steel/Tube

**ABNAHMEPRÜFZEUGNIS EN 10204-3.1**  
INSPECTION CERTIFICATE EN 10204-3.1  
CERTIFICAT DE RECEPTION EN 10204-3.1

Dokument-Nr.:  
Document No.:  
No. du document:

41-832030/002/P

Prüf-Nr.:  
Inspection No.:  
No. du certificat:

Blatt: 3 / 4  
Page:  
Page:

Zugversuch längs Vollprobe / Tensile test longitudinal Full section test specimen / Essai de traction longitudinale Eprouvette a section complete

Pos.	Proben-Nr.	Schmelzen-Nr.	Probenabmessung	Streckgrenze	Zugfestigkeit	Dehnung	Einschnürung
Item	Specimen No.	Heat No.	Specimen dimensions	Yield strength	Tensile strength	Elongation	Area reduction
Poste	No. de l'éprouvette	No. de coulée	Dimensions de l'éprouv.	Limite élastique	Résistance à la traction	Allongement	Coefficient de striction
Anforderungen							
Requérments			mm	Rp 0,2 %	Rm	A2"	1. Formel
Exigences				PSI	PSI	%	1. Formule
				MIN 75000	MIN 95000	MIN 12.00	1. Formule
0016	000001	587359	19,05 X 2,10	101817	120381	20,00	
0016	000002	587359	19,05 X 2,10	104427	120817	20,00	
0016	000003	587359	19,05 X 2,10	105152	119801	20,00	
0016	000004	587359	19,05 X 2,10	103267	121687	20,00	
0016	000005	587359	19,05 X 2,10	104572	120962	20,00	
Randentkohlung / Surface decarburization / Décarburation superficielle							
Pos. / Item / Poste: 0016							
acc. MIL-T-6736B / AMS-T-6736B, decarburization outside max. 0.356 mm, decarburization outside + inside max. 0.46 mm							
<div>ACCEPTED BY S</div> <div>DATE OCT 09 2014</div> <div>T</div> <div>TYW METALS</div> <div>R</div> <div>E</div> <div>P</div>							

Vermerk / Remark / Remarque

Pos. / Item / Poste: 0016

Certificate remarks: The steel grade corresponds to MIL-T-6736B, AMS 6360M and AMS 6371K, material free from mercury contamination, FAR BAA: 52.225-1 CANNOT COMPLY, DFARS BAA: 252.225-7001 CAN COMPLY, FAR TAA: 52.225-5 CAN COMPLY, No weld repair has been carried out, Country of origin of the material and heat: Germany; see appendix page 1 of 1

Pos. / Item / Poste: 0016

Macroscopic examination: acc. to ASTM-E 381

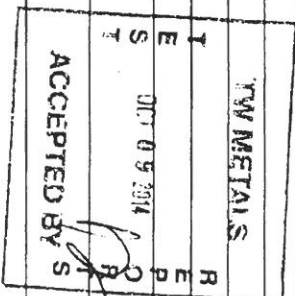
Pos. / Item / Poste: 0016

Magnetic particle inspec.: acc. to AMS 2301 G/2640, on prematerial

Pos. / Item / Poste: 0016

Grain size: acc. to ASTM-E 112; Grain size and finer: 5; Grain size: Longitudinal structure micrography, On prematerial

Verkäufer(in) / Sales personnel / Personne chargée : Mr Schwarz, Tel.: 05254 81-204311, Fax: 204388



Benteler Steel/Tube GmbH  
Postfach 13 40  
33043 Paderborn  
Deutschland  
Tel.: +49.5254.81-0 Fax: +49.5254.13666

**BENTELER**  
Steel/Tube

**ABNAHMEPRÜFZEUGNIS EN 10204-3.1**  
INSPECTION CERTIFICATE EN 10204-3.1  
CERTIFICAT DE RECEPTION EN 10204-3.1

Dokument-Nr.:  
Document No.:  
No. du document:

41-832030/002/P

Prüf-Nr.:  
Inspection No.:  
No. du certificat:

Blatt: 4 / 4  
Page:  
Page:

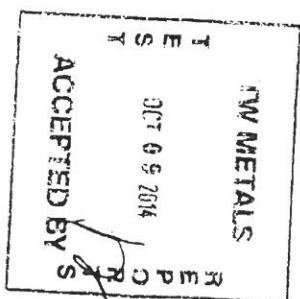
Paderborn Schloß Neuhaus, 14.09.2014, TEL.: 05254.81-201767 FAX: 05254.81-201752

Abnahmebeauftragter  
Inspection representative

Contrôleur

THOMAS GOLLAN / TEM

Es wird bestätigt, daß die gelieferten Erzeugnisse den techn. Lieferbedingungen des Auftrages entsprechen. Dieses Dokument wurde mittels EDV erstellt und ist ohne Unterschrift rechtsgültig.  
We certify that the supplied products comply with the order specification. This document was prepared by means of electronic data processing and is valid without signature.  
Nous attestons que les produits livrés sont conformes aux stipulations de la commande. Ce document a été établi par traitement électronique de l'information et est valide sans signature.



Benteler Steel/Tube GmbH  
Residenzstraße 1  
33104 Paderborn  
Germany  
Tel.: 49 5254 81-0 Fax: 49 5254 13666

**BENTELER**  
Steel/Tube

Abnahmeprüfzeugnis EN 10204-3.1 / Anhang  
**Inspection Certificate EN 10204.3.1 / appendix**  
Certificat de réception EN 10204-3.1 / appendice

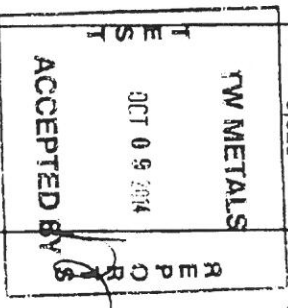
Dokument-Nr.  
**Document No.:**  
No. de document:

41-832030/002/P

Blatt: von  
**Page: 1 of 1**  
Page: de

Halbzeuguntersuchung: Stahlsorte 4130 / Semi finished product examination: grade 4130 / Produit semi-fini: nuance 4130

Schmelzen-Nr. Heat No. Coulée No.	Position Item Poste	Korngröße Grain size Grosseur de grain (ASTM-E 112)	Härtbarkeit (min. Anforderungen) Tremabilité (exigence min.) (ASTM-A 255)		Magnetpulverprüfung Magnetic particle inspection Essai à la poudre magnétique (AMS 2301G / 2640J)		Makroätzung Macrostructure test Essai de macrostructure (ASTM-E 381)		
		min. 5	J(5/16") min. 35 HRC	J(8/16") min. 28 HRC	F max. 0,34	S max. 0,25	max. S 2	max. R 1	max. C 2
587359	016	10	41	31	0,029	0,020	S 2	R 1	C 2
Decarburization Depth		Outside 0,000 mm	Inside 0,030 mm						



*A.A.*  
**BENTELER**  
Steel/Tube GmbH

Der Stahl ist frei von Quecksilberverunreinigungen. / The steel is free of mercury contamination. / L'acier est libre des contaminations de mercure.

Paderborn Schloß Neuhaus, 14.09.2014  
Tel.: (0)5254 81-201760 Fax: (0)5254 81-201752

Abnahmebeauftragter  
**Inspection representative**  
Contrôleur  
Thomas Gollan





PACKING SLIP

ORDER NO.: 60608367 FROM: CRAN PAGE 3



CUST NUMBER: 1203820 NET WGT: 47.075 REQ. DATE: 07/08/16 CONFIRMED  
SOLD TO: DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY ON  
CANADA  
SHIP TO: DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY ON  
ONTARIO CANADA  
CN K6A 1K7

SALESPERSON: DONNA SMALLEY  
TERMS: NET 30 DAYS  
F.O.B.: SHIPPING POINT  
CUST ORD NO.: PO32894  
VIA: COMMON CARRIER  
FREIGHT: PREPAID  
RELEASE NO.:  
RECEIVING PHONE:

"TW Metals MSDS data is available on our web site at [www.twmetals.com](http://www.twmetals.com). MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for confiferous non-manufactured wood packing material"

Authorized Test Report Clerk *[Signature]* Date: 7/01/16

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE  
OF THESE PRODUCTS ARE SET FORTH ON THE  
REVERSE SIDE FOR YOUR CAREFUL REVIEW.





27 ENGELHARD DRIVE  
MONROE TWP NJ 08831  
Tel: 609-655-4120  
FAX: 6096552603  
Invoice# : 60608367  
Cust. PO# : PO32894  
Incoterms: SHIPPING POINT  
Prt. Terms: PREPAID  
Ship Via: COMMON CARRIER

COMMERCIAL INVOICE

Sold To: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON CANADA		Freight Forwarder/Intermediate Ship To:	
Contact: CHANTAL 16136321053		DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON ONTARIO CANADA CN K6A 1K7	
Invoice Date: 7/05/16		Ship To/Final Destination:	
Ship Date: 7/01/16		Payment Terms: NET 30 DAYS	



Invoice#: 60608367  
 Cust. PO#: P032894  
 Incoterms: SHIPPING POINT  
 Frt. Terms: PREPAID  
 Ship Via: COMMON CARRIER  
 27 ENGLEHARD DRIVE  
 MONROE TWP  
 NJ 08831  
 Tel: 609-655-4120  
 FAX: 60965552603

COMMERCIAL INVOICE

Sold To: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON CANADA CN K6A 1K7 C		Contact: CHANTAL 1613636321053
Freight Forwarder/Intermediate Ship To:		
DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON ONTARIO CANADA CN K6A 1K7		
Invoice Date: 7/05/16	Ship Date: 7/01/16	Payment Terms: NET 30 DAYS
Ship To/Final Destination:		

ITEM#/LINE#	DESCRIPTION	QUANTITY	UNIT	VALUE	SUBTOTAL
	1 CARTON 12.5000 X TOTAL WGT: LBS GROSS WGT: LBS				
	EXPORT LICENSE NUMBER: NLR EXPIRATION DATE: 00/00/00				
	TW METALS, INC CERTIFIES THAT THE COUNTRY OR COUNTRIES OF MANUFACTURE INDICATED ABOVE IS TRUE AND CORRECT AS CONTAINED IN THE RECORDS OF TW METALS, INC. THESE COMMODITIES HAVE BEEN EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE U.S. EXPORT CONTROL LAWS. EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED	3	Payable in US Dollars	Sales Tax	471.99 .00
	Page				



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

**PURCHASE ORDER**  
Purchase Order ID PO32894  
Purchase Order Date 6/30/2016  
PO Print Date 6/30/2016

Page Number 1 of 3

Order From :

VU-TWM001

Ship To : DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

TW METALS  
PO BOX 933014  
ALTANTA, GA 31193-3014  
US

Contact Name

Vendor Phone 585 768 5600

Ship To Contact

Ship To Phone

Ship Via:

YRC COLLECT

Ship Acct:

FOB

FCA - (Free Carrier)

Currency

USD

Terms

Net 30

Customer Tax #

10127-2607

Customer POID

Buyer

Reg Date/  
Taxable CD

Reg Qty/  
Unit of  
Measure

PO Unit Price

Extended  
Price

Line  
Reference  
Vendor Part Number  
Line Comments  
Delivery Comments

Description/  
Mfg ID

304 RD Tube .750 x .049W

7/11/2016  
Yes

60.00

\$2.10

\$126.00

MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING  
AS PER ASTM A213 OR AMSE SA213 OR ASTM A269

2 M6061T6T0.500W.058

6061-T6 RD Tube .500  
x.058W

7/11/2016  
Yes

80.00

\$1.75

\$140.00

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING  
AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR  
AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR  
ASTM B241

Line Total:

\$140.00

Note:

6/30/2016



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

**PURCHASE ORDER**  
Purchase Order ID PO32894  
Purchase Order Date 6/30/2016  
PO Print Date 6/30/2016

Page Number 2 of 3

Order From :

VU-TWM001

Ship To : DART AEROSPACE LTD

TW METALS  
PO BOX 933014  
ALANTA, GA 31193-3014  
US  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name  
Vendor Phone

585 768 5600

Ship To Contact  
Ship To Phone

YRC COLLECT

Ship Via:

Ship Acct:

FOB

Currency

USD

Terms

Net 30

Customer Tax #

10127-2607

Customer POID

Buyer

3 M6061T6TD.625W.125 6061-T6 RD Tube 0.625 7/11/2016 24.00 ✓ \$5.15 \$123.60

Yes  
7/11/2016

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING  
AS PER WW-T-700/6 OR QQ-A-225/8 OR  
AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR  
ASTM B241

Line Total: \$123.60

\$3.85 \$92.40

Yes  
7/11/2016

4 M4130NTO.750W.083 4130 RD Tube .750 X.083W

MATERIAL: AISI 4130N SEAMLESS STEEL TUBING  
AS PER MIL-T-6736 OR AMS 6371/6360/6361  
6362/6373/6374

Line Total:

\$92.40

Note:

6/30/2016





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

**PURCHASE ORDER**  
Purchase Order ID PO32894

Purchase Order Date 6/30/2016  
PO Print Date 6/30/2016

Page Number 3 of 3

Order From :

VU-TWM001

Ship To : DART AEROSPACE LTD

TW METALS  
PO BOX 933014  
ALTANTA, GA 31193-3014  
US  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name	Vendor Phone	585 768 5600	Buyer	Customer POID	Customer Tax #	10127-2607	Terms	Net 30	USD	FOB	FCA - (Free Carrier)	
Ship To Contact	Ship To Phone	Ship Via:	Ship Acct:									
		YRC COLLECT										
5	71401-45	procurement quality clauses	7/11/2016	No	7/11/2016	1.00						

Procurement Quality Clauses  
A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier  
A043 retention of quality documents

8016-7-15

h  
CX

Line Total: \$0.00  
PO Total: \$482.00

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Change Nbr: 1 Change Date: 6/30/2016

Chantal Lavoie

**From:** Smalley, Donna <donna.smalley@twmetals.com>  
**Sent:** Tuesday, June 28, 2016 10:32 AM  
**To:** Chantal Lavoie  
**Subject:** RE: quote

See below

Donna Smalley  
Inside Account Manager  
TW Metals-Rochester, NY  
Phone 585-768-5600  
Fax 585-768-5601  
Direct 585-768-5604  
800-203-8000  
[www.twmetals.com](http://www.twmetals.com)

---

**From:** Chantal Lavoie [mailto:clavoie@artaero.com]  
**Sent:** Tuesday, June 28, 2016 8:37 AM  
**To:** Smalley, Donna <donna.smalley@twmetals.com>  
**Subject:** quote

Good morning Donna,  
Please advise price and delivery on material.

304 round tubing 0.750" x .049" wall x 60 ft seamless \$2.10 ft  
6061-t6 round tubing 0.500" x .058" wall x 80 ft seamless \$1.75 ft  
6061-t6 round tubing 0.625" x .125" wall x 24 ft seamless \$5.15 ft  
4130n round tubing 0.750" x .083" wall x 24 ft \$3.85 ft  
4130n round bar 0.375" x 12 ft do not have

Thanks  
Chantal

**Chantal Lavoie**  
*Purchasing Coordinator*

**DART AEROSPACE**  
T 1 613 632-5200  
F 1 613 632-1053  
E [clavoie@artaero.com](mailto:clavoie@artaero.com)  
1 800 556-4166  
[www.dartaerospace.com](http://www.dartaerospace.com)



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL #130 UTO. 3000.083

DATE 16/07/20

QUANTITY RECEIVED 19.6

QUANTITY INSPECTED 19.6

QUANTITY REMAINTED

THICKNESS ORDERED 750X.083W  
THICKNESS RECEIVED 750X.081W  
SHEET SIZE ORDERED  
SHEET SIZE RECEIVED

PO / BATCH NO 32894/135242

COMMENTS

DESCRIPTION	NCR (check Y/N)
SURFACE DAMAGE	Y
CORRECT FINISH	Y
CORROSION	Y
CORRECT GRAIN DIRECTION	Y
CORRECT MATERIAL	Y
CORRECT THICKNESS	Y
PHOTO REQUIRED	Y
CORRECT MATERIAL	Y
CORRECT REF # TO LINK CERT	Y
CORRECT MATERIAL IDENTIFICATION	Y
CORRECT M# ON THE MATERIAL	Y
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF?	Y
DOES THIS REQUIRE AN EXTRUSION REPORT?	Y

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK  
RECORD RESULTS BELOW

HRC	HRB	DUR A	DUR B

Testers located in the Quality Office

TYPE OF MATERIAL  
SIZE OF TEST SAMPLE  
HARDNESS / DUROMETER READING

OC 18 INSPECTION

DAS 14 9.86

INSPECTED BY

DATE 16/07/20

SIGNED OFF BY

DATE

ENGINEERING SIGNOFF (if required)

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

HYFORMS Quality Assurance Approved OAMRIF Material Receipt Inspection Form revB

# MATERIAL RECEIPT INSPECTION FORM

PO / BATCH NO 32894/135242  
 MATERIAL 625X.1250  
 DATE 16/07/20  
 THICKNESS ORDERED 625X.1250  
 THICKNESS RECEIVED 625X.1250  
 SHEET SIZE ORDERED  
 SHEET SIZE RECEIVED  
 QUANTITY ORDERED  
 QUANTITY RECEIVED  
 QUANTITY INSPECTED  
 QUANTITY REJECTED

MATERIAL 625X.1250  
 DATE 16/07/20  
 THICKNESS ORDERED 625X.1250  
 THICKNESS RECEIVED 625X.1250  
 SHEET SIZE ORDERED  
 SHEET SIZE RECEIVED  
 QUANTITY ORDERED  
 QUANTITY RECEIVED  
 QUANTITY INSPECTED  
 QUANTITY REJECTED

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y	
CORRECT FINISH	Y	
CORROSION	Y	
CORRECT GRAIN DIRECTION	Y	
CORRECT MATERIAL	Y	
CORRECT THICKNESS	Y	
PHOTO REQUIRED	Y	
CORRECT MATERIAL	Y	
CORRECT REF # TO LINK CERT	Y	
CORRECT MATERIAL IDENTIFICATION	Y	
CORRECT M# ON THE MATERIAL	Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK	RECORD RESULTS BELOW
HRC	HRB
DUR A	DUR B
TYPE OF MATERIAL	
SIZE OF TEST SAMPLE	
HARDNESS / DUROMETER READING	

Testers located in the Quality Office

**ENGINEERING SIGNOFF (if required)**  
 SIGNED OFF BY \_\_\_\_\_  
 DATE \_\_\_\_\_  
 INSPECTED BY \_\_\_\_\_  
 DATE 16/07/20  
 DMS 14 9:09

Attach this inspection sheet with the corresponding material cert and send to be scanned and received in

HAFOIMS Quality Assurance Approved OAMRIF Material Receipt Inspection Form rev B

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: ML0116, 500X.058W DATE: 16/07/20  
 QUANTITY RECEIVED: 84  
 QUANTITY INSPECTED: 84  
 QUANTITY REJECTED: 0  
 PO / BATCH NO: 32894/135242  
 THICKNESS ORDERED: 500X.058W  
 THICKNESS RECEIVED: 500X.055W  
 SHEET SIZE ORDERED: \_\_\_\_\_  
 SHEET SIZE RECEIVED: \_\_\_\_\_

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF?	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT?	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK	
RECORD RESULTS BELOW	
HRC	
HRB	
DUR A	
DUR D	
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING <i>Tests located in the Quality Office</i>	

**QC 18 INSPECTION**  
 INSPECTED BY: DAS DATE: 16/07/20  
 SIGNED OFF BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 ENGINEERING SIGNOFF (if required)

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# MATERIAL RECEIPT INSPECTION FORM

PO / BATCH NO 32894/135242  
 THICKNESS ORDERED 750X 0.49mm  
 THICKNESS RECEIVED 750 X 0.49mm  
 SHEET SIZE ORDERED  
 SHEET SIZE RECEIVED

MATERIAL H204TR, 750u, 0.49  
 DATE 16/07/20  
 MATERIAL CERT REC'D  
 QUANTITY RECEIVED 460  
 QUANTITY INSPECTED 460  
 QUANTITY REJECTED

DESCRIPTION	Y/N	Check	COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	Y	(N)	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	Y	(N)	
CORRECT MATERIAL	Y	(N)	
CORRECT THICKNESS	Y	(N)	
PHOTO REQUIRED	Y	(N)	
CORRECT MATERIAL	Y	(N)	
CORRECT REF # TO LINK CERT	Y	(N)	
CORRECT MATERIAL IDENTIFICATION	Y	(N)	
CORRECT M# ON THE MATERIAL	Y	(N)	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK  
 RECORD RESULTS BELOW

TYPE OF MATERIAL	SIZE OF TEST SAMPLE	HARDNESS / DUROMETER READING
HRC		
HRB		
DUR A		
DUR D		

Testers located in the Quality Office

**QC 18 INSPECTION**

INSPECTED BY DAS 14 9:00  
 DATE 16/07/20  
 SIGNED OFF BY  
 DATE

ENGINEERING SIGNOFF (if required)

Attach this inspection sheet with the corresponding material cert and return to be scanned and received in

HYFORMS Quality Assurance Approved OAMRIE Material Receipt Inspection Form revB